

Subscribe (Full Service) Register (Limited Service, Free) Login

Search: The ACM Digital Library

The Guide

ÉEÄRCH

THE GUIDE TO COMPUTING LITERATURE

Feedback Report a problem Satisfaction survey

Memory Profiling using Hardware Counters

Full text

Pdf (118 KB)

Source

Conference on High Performance Networking and Computing archive

Proceedings of the 2003 ACM/IEEE conference on Supercomputing table of contents

Page: 17

Year of Publication: 2003

ISBN:1-58113-695-1

Authors

Marty Itzkowitz

Brian J. N. Wylie
Sun Microsystems, Inc., Menlo Park, California
Christopher Aoki
Nicolai Kosche
Sun Microsystems, Inc., Menlo Park, California
Sun Microsystems, Inc., Menlo Park, California
Sun Microsystems, Inc., Menlo Park, California

Sponsor

SIGARCH: ACM Special Interest Group on Computer Architecture

Publisher

IEEE Computer Society Washington, DC, USA

Additional Information: abstract cited by collaborative colleagues

Tools and Actions:

Find similar Articles Review this Article

Save this Article to a Binder

Display Formats: BibTex EndNote ACM Ref

↑ ABSTRACT

Although memory performance is often a limiting factor in application performance, most tools only show performance data relating to the instructions in the program, not to its data. In this paper, we describe a technique for directly measuring the memory profile of an application. We describe the tools and their user model, and then discuss a particular code, the MCFbenchmark from SPEC CPU 2000. We show performance data for the data structures and elements, and discuss the use of the data to improve program performance. Finally, we discuss extensions to the work to provide feedback to the compiler for prefetching and to generate additional reports from the data.

个 CITED BY 2

Erik Berg , Erik Hagersten, Fast data-locality profiling of native execution, ACM SIGMETRICS Performance Evaluation Review, v.33 n.1, June 2005

Priya Nagpurkar, Hussam Mousa, Chandra Krintz, Timothy Sherwood, Efficient remote profiling for resource-constrained devices, ACM Transactions on Architecture and Code Optimization (TACO), v.3 n.1, p.35-66, March 2006

↑ Collaborative Colleagues:

Christopher Aoki: Marty Itzkowitz

Nicolai Kosche Brian J. N. Wylie

Marty Itzkowitz: Christ

Christopher Aoki Nicolai Kosche Brond Larson Steve Turner Brian J. N. Wylie Marco Zagha

Nicolai Kosche: Christopher Aoki

Marty Itzkowitz Brian J. N. Wylie

Brian J. N. Wylie: Christopher Aoki

Marty Itzkowitz Nicolai Kosche

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2007 ACM, Inc.

<u>Terms of Usage Privacy Policy Code of Ethics Contact Us</u>

Useful downloads: Adobe Acrobat Q QuickTime Windows Media Player Real Player